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AMENDMENTS TO CLAIMS

1. - 21. (cancelled)

22. (original) A method for decreasing the VSWR of a loop type meander line loaded antenna having a feed comprising placing a strip of lossy dielectric material across the feed.

23. (original) The method of Claim 22, wherein the lossy dielectric material has a resistivity of 5-50 ohm-centimeters.

24. (original) The method of Claim 23, wherein the lossy dielectric material has a dielectric constant at 8.6 GHz of 37.

25. (original) The method of Claim 23, wherein the thickness of the lossy dielectric material strip is 0.30 inches.

26. (original) The method of Claim 22, wherein the lossy dielectric material includes a resistive plastic film.

27. (original) The method of Claim 22, wherein the lossy dielectric material includes a resistive vinyl plastic film that is conductive between 1 and 18 GHz.

28. (original) A method of decreasing the VSWR of a loop type meander line loaded antenna having a feed, comprising:

placing a capacitor across the feed for frequencies below the frequency at which the antenna exhibits significant inductive reactance; and,

placing a series connected capacitor and resistor across the feed for frequencies above the frequency at which the antenna exhibits significant inductive reactance.

29. (original) The method of Claim 28, wherein the capacitor and resistor are provided by a lossy dielectric material.

30. (original) The method of Claim 29, wherein the lossy dielectric material has a resistivity of 5-50 ohm-centimeters.

31. (original) The method of Claim 30, wherein the lossy dielectric material has a dielectric constant at 86 Hz of 37.

32. (original) A wide bandwidth meander line loaded antenna, comprising:
a loop type meander line loaded antenna having a pair of top plates and a feed therebetween; and,

a layer of lossy dielectric material across said feed, whereby the VSWR of said antenna is minimized across the bandwidth thereof.

33. (original) The antenna of Claim 32, wherein said loop type meander line loaded antenna is embedded in a conductive cavity.

34. (original) The antenna of Claim 32, wherein said antenna includes a ground plane plate and wherein said top plates are spaced from said ground plane plate.

35. (original) The antenna of Claim 32, wherein said layer of lossy dielectric material has a resistivity of 5-50 ohm-centimeters.

36. (original) The antenna of Claim 35, wherein said layer has a dielectric constant at 8.6 GHz of 37.

37. (original) The antenna of Claim 32, wherein said layer has a thickness of 3 inches.

38. (original) The antenna of Claim 32, wherein said layer includes a resistive plastic film.

39. (cancelled)